

Appendix G: Secondary Mode Conducted Powers

G.1. LTE-M Conducted Powers

LTE-M Band 12		Frequency [MHz]			707.5	MPR [dB]
Antenna:	Main					
Bandwidth [MHz]:	10	Channel Number			23095	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]	
Max	16QAM	1	0	1	22.59	0
		1	2	3	22.62	0
		1	5	6	22.61	0
		3	0	1	22.63	0
		3	2	3	22.57	0
		3	3	6	22.60	0
		6	0	1	21.77	2
		6	0	3	21.85	2
		6	0	6	21.80	2

LTE-M Band 12		Frequency [MHz]			701.5	707.5	713.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			23035	23095	23155	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.55	22.34	22.43	0
		1	2	1	22.49	22.44	22.49	0
		1	5	2	22.45	22.18	22.36	0
		3	0	Low	21.88	21.67	21.87	1
		3	2	1	21.87	21.79	21.84	1
		3	3	2	21.77	21.81	21.87	1
		6	0	Low	21.77	21.70	21.92	1
		6	0	1	21.72	21.76	21.84	1
		6	0	2	21.78	21.77	21.81	1
	16QAM	1	0	Low	22.41	22.30	22.70	0
		1	2	1	22.42	22.43	22.69	0
		1	5	2	22.28	22.33	22.65	0
		3	0	Low	21.81	21.81	21.85	1
		3	2	1	21.84	21.75	21.84	1
		3	3	2	21.95	21.88	21.87	1
		6	0	Low	21.20	21.22	21.18	2
		6	0	1	21.14	21.34	21.17	2
		6	0	2	21.33	21.29	21.21	2

LTE-M Band 12		Frequency [MHz]			700.5	707.5	714.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			23025	23095	23165	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.48	22.43	22.49	0
		1	0	High	22.47	22.48	22.50	0
		1	5	High	22.45	22.47	22.33	0
		3	0	Low	21.93	21.80	22.01	1
		3	0	High	21.87	21.79	21.85	1
		3	3	High	21.86	21.88	21.82	1
		6	0	Low	21.08	21.45	21.18	2
		6	0	High	21.25	21.42	21.25	2
	16QAM	1	0	Low	22.05	21.68	21.98	1
		1	0	High	21.92	21.81	22.02	1
		1	5	High	21.93	21.73	22.05	1
		3	0	Low	21.33	21.18	21.18	2
		3	0	High	21.20	21.29	21.27	2
		3	3	High	21.19	21.34	21.33	2
		6	0	Low	21.02	21.08	21.06	2
		6	0	High	20.96	21.03	21.01	2

LTE-M Band 12		Frequency [MHz]			699.7	707.5	715.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			23017	23095	23173	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.41	22.32	22.49	0
		1	2	N/A	22.43	22.35	22.51	0
		1	5	N/A	22.45	22.25	22.50	0
		3	0	N/A	21.92	21.81	21.83	1
		3	2	N/A	21.87	21.78	21.85	1
		3	3	N/A	21.99	21.82	22.11	1
		6	0	N/A	21.44	21.15	21.22	2
	16QAM	1	0	N/A	22.04	22.01	22.04	1
		1	2	N/A	21.98	21.89	22.05	1
		1	5	N/A	22.01	21.96	22.01	1
		3	0	N/A	21.30	21.15	21.35	2
		3	2	N/A	21.24	21.12	21.28	2
		3	3	N/A	21.24	21.30	21.47	2
		6	0	N/A	21.54	21.47	21.38	2

LTE-M Band 4		Frequency [MHz]			1732.5	MPR [dB]
Antenna:	Main					
Bandwidth [MHz]:	20	Channel Number			20175	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]	
Max	16QAM	1	0	1	21.88	0
		1	0	7	21.78	0
		1	5	14	21.88	0
		3	0	1	21.88	0
		3	0	7	21.87	0
		3	3	14	21.87	0
		6	0	1	21.98	0
		6	0	7	21.93	0
		6	0	14	21.91	0

LTE-M Band 4		Frequency [MHz]			1717.5	1732.5	1747.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	15	Channel Number			20025	20175	20325	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	21.91	21.76	21.66	0
		1	0	5	21.91	21.78	21.72	0
		1	5	10	21.80	21.74	21.75	0
		3	0	1	21.89	21.90	21.59	0
		3	0	5	21.89	21.81	21.60	0
		3	3	10	21.90	21.83	21.60	0
		6	0	1	21.58	21.88	21.80	0
		6	0	5	21.66	21.89	21.75	0
		6	0	10	21.67	21.89	21.75	0
	16QAM	1	0	1	21.63	21.86	21.74	0
		1	0	5	21.63	21.86	21.75	0
		1	5	10	21.62	22.00	21.74	0
		3	0	1	21.52	21.77	21.88	0
		3	0	5	21.53	21.77	21.96	0
		3	3	10	21.60	21.74	21.83	0
		6	0	1	21.33	21.81	21.40	0
		6	0	5	21.42	21.82	21.45	0
		6	0	10	21.29	21.83	21.46	0

LTE-M Band 4		Frequency [MHz]			1715	1732.5	1750	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	10	Channel Number			20000	20175	20350	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	21.73	21.71	21.66	0
		1	2	3	21.72	21.69	21.82	0
		1	5	6	21.63	21.65	21.71	0
		3	0	1	21.69	21.74	21.74	0
		3	2	3	21.72	21.75	21.76	0
		3	3	6	21.74	21.77	21.67	0
		6	0	1	21.08	21.11	21.12	1
		6	0	3	21.13	21.13	21.15	1
		6	0	6	21.14	21.14	21.15	1
	16QAM	1	0	1	21.64	21.93	21.76	0
		1	2	3	21.63	21.89	21.77	0
		1	5	6	21.66	21.95	21.81	0
		3	0	1	21.67	21.76	21.73	0
		3	2	3	21.65	21.77	21.72	0
		3	3	6	21.67	21.64	21.74	0
		6	0	1	21.00	20.98	20.80	2
		6	0	3	21.02	21.04	20.97	2
		6	0	6	21.01	21.10	20.88	2

LTE-M Band 4		Frequency [MHz]			1712.5	1732.5	1752.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			19975	20175	20375	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.21	21.24	21.63	0
		1	2	1	21.55	21.49	21.62	0
		1	5	2	21.52	21.48	21.54	0
		3	0	Low	21.49	21.51	21.69	1
		3	2	1	21.17	21.62	21.65	1
		3	3	2	21.49	21.44	21.58	1
		6	0	Low	21.22	21.51	21.57	1
		6	0	1	21.14	21.52	21.63	1
		6	0	2	21.25	21.49	21.61	1
	16QAM	1	0	Low	21.47	21.53	21.62	0
		1	2	1	21.53	21.52	21.53	0
		1	5	2	21.47	21.54	21.52	0
		3	0	Low	21.46	21.58	21.65	1
		3	2	1	21.45	21.54	21.68	1
		3	3	2	21.46	21.22	21.61	1
		6	0	Low	21.24	20.67	20.85	2
		6	0	1	21.22	20.68	21.40	2
		6	0	2	21.17	20.67	21.41	2

LTE-M Band 4		Frequency [MHz]			1711.5	1732.5	1753.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			19965	20175	20385	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.72	21.82	21.81	0
		1	0	High	21.74	21.83	21.83	0
		1	5	High	21.73	21.84	21.82	0
		3	0	Low	21.09	21.17	21.32	1
		3	0	High	21.05	21.15	21.23	1
		3	3	High	21.06	21.07	21.21	1
		6	0	Low	21.11	21.12	21.21	2
		6	0	High	21.05	21.07	21.17	2
	16QAM	1	0	Low	21.10	21.09	21.13	1
		1	0	High	21.09	21.15	21.25	1
		1	5	High	21.02	21.17	21.18	1
		3	0	Low	20.35	20.66	20.53	2
		3	0	High	20.68	20.44	20.83	2
		3	3	High	20.50	20.49	20.81	2
		6	0	Low	20.46	20.54	20.60	2
		6	0	High	20.29	20.35	20.66	2

LTE-M Band 4		Frequency [MHz]			1710.7	1732.5	1754.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			19957	20175	20393	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	21.74	21.77	21.81	0
		1	2	N/A	21.77	21.86	21.85	0
		1	5	N/A	21.76	21.82	21.86	0
		3	0	N/A	21.25	21.33	21.37	1
		3	2	N/A	21.27	21.34	21.38	1
		3	3	N/A	21.23	21.33	21.28	1
		6	0	N/A	21.13	21.37	21.26	2
	16QAM	1	0	N/A	21.22	21.15	21.33	1
		1	2	N/A	21.21	21.26	21.32	1
		1	5	N/A	21.23	21.20	21.24	1
		3	0	N/A	20.74	20.88	20.88	2
		3	2	N/A	20.80	20.83	20.84	2
		3	3	N/A	20.76	20.86	20.74	2
		6	0	N/A	20.84	20.68	20.84	2

LTE-M Band 2		Frequency [MHz]			1860	1880	1900	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	20	Channel Number			18700	18900	19100	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	16QAM	1	0	1	21.83	21.66	21.33	0
		1	0	7	21.82	21.65	21.45	0
		1	5	14	21.75	21.65	21.37	0
		3	0	1	21.87	21.74	21.39	0
		3	0	7	21.86	21.76	21.52	0
		3	3	14	21.85	21.75	21.43	0
		6	0	1	21.75	21.63	21.07	0
		6	0	7	21.74	21.64	21.19	0
		6	0	14	21.73	21.63	21.10	0

LTE-M Band 2		Frequency [MHz]			1857.5	1880	1902.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	15	Channel Number			18675	18900	19125	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	21.62	21.35	21.44	0
		1	0	5	21.60	21.36	21.48	0
		1	5	10	21.59	21.32	21.45	0
		3	0	1	21.74	21.40	21.35	0
		3	0	5	21.73	21.42	21.40	0
		3	3	10	21.58	21.28	21.35	0
		6	0	1	21.72	21.37	21.33	0
		6	0	5	21.71	21.38	21.38	0
		6	0	10	21.71	21.32	21.31	0
	16QAM	1	0	1	21.66	21.54	21.35	0
		1	0	5	21.65	21.54	21.42	0
		1	5	10	21.66	21.53	21.33	0
		3	0	1	21.76	21.52	21.40	0
		3	0	5	21.76	21.62	21.52	0
		3	3	10	21.75	21.53	21.42	0
		6	0	1	21.77	21.52	21.11	0
		6	0	5	21.76	21.59	21.18	0
		6	0	10	21.75	21.64	21.14	0

LTE-M Band 2		Frequency [MHz]			1855	1880	1905	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	10	Channel Number			18650	18900	19150	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	21.69	21.44	21.45	0
		1	2	3	21.77	21.47	21.46	0
		1	5	6	21.62	21.43	21.31	0
		3	0	1	21.72	21.48	21.42	0
		3	2	3	21.73	21.49	21.45	0
		3	3	6	21.72	21.46	21.43	0
		6	0	1	21.58	20.88	20.79	1
		6	0	3	21.61	20.78	20.70	1
		6	0	6	21.60	20.66	20.66	1
	16QAM	1	0	1	21.47	21.38	21.57	0
		1	2	3	21.44	21.44	21.60	0
		1	5	6	21.42	21.43	21.60	0
		3	0	1	21.43	21.45	21.44	0
		3	2	3	21.41	21.43	21.46	0
		3	3	6	21.43	21.44	21.44	0
		6	0	1	20.92	20.80	20.63	2
		6	0	3	20.91	20.67	20.72	2
		6	0	6	20.89	20.66	20.60	2

LTE-M Band 2		Frequency [MHz]			1852.5	1880	1907.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			18625	18900	19175	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.75	21.55	21.43	0
		1	2	1	20.96	20.84	20.66	0
		1	5	2	20.83	20.66	20.70	0
		3	0	Low	21.54	21.55	21.35	1
		3	2	1	20.91	20.82	20.65	1
		3	3	2	20.92	20.77	20.63	1
		6	0	Low	21.66	21.55	21.44	1
		6	0	1	20.93	20.75	20.61	1
		6	0	2	20.82	20.74	20.59	1
	16QAM	1	0	Low	21.65	21.52	21.13	0
		1	2	1	20.82	21.06	20.80	0
		1	5	2	20.85	21.03	20.81	0
		3	0	Low	21.74	21.59	21.45	1
		3	2	1	21.01	20.73	20.73	1
		3	3	2	21.04	20.62	20.67	1
		6	0	Low	20.75	20.63	20.44	2
		6	0	1	20.20	20.30	20.05	2
		6	0	2	20.33	20.30	20.01	2

LTE-M Band 2		Frequency [MHz]			1851.5	1880	1908.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			18615	18900	19185	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.69	21.41	21.49	0
		1	0	High	21.55	21.42	21.38	0
		1	5	High	21.54	21.44	21.34	0
		3	0	Low	21.64	21.55	21.21	1
		3	0	High	20.96	20.85	20.61	1
		3	3	High	20.92	20.78	20.71	1
		6	0	Low	20.61	20.26	20.48	2
		6	0	High	20.88	20.61	20.82	2
	16QAM	1	0	Low	21.63	21.59	21.33	1
		1	0	High	20.99	20.85	20.77	1
		1	5	High	20.66	20.86	20.72	1
		3	0	Low	20.76	20.95	20.41	2
		3	0	High	20.68	20.30	20.09	2
		3	3	High	20.23	20.24	20.27	2
		6	0	Low	20.74	20.95	20.94	2
		6	0	High	20.21	20.49	20.20	2

LTE-M Band 2		Frequency [MHz]			1850.7	1880	1909.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			18607	18900	19193	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	21.61	21.44	21.46	0
		1	2	N/A	21.63	21.53	21.44	0
		1	5	N/A	21.67	21.52	21.47	0
		3	0	N/A	21.17	20.82	20.82	1
		3	2	N/A	21.27	21.04	20.87	1
		3	3	N/A	21.26	20.72	20.76	1
		6	0	N/A	20.98	20.87	20.87	2
	16QAM	1	0	N/A	21.18	21.14	20.89	1
		1	2	N/A	21.11	20.83	20.78	1
		1	5	N/A	21.15	20.92	20.76	1
		3	0	N/A	20.56	20.37	20.19	2
		3	2	N/A	20.52	20.64	20.09	2
		3	3	N/A	20.47	20.24	20.25	2
		6	0	N/A	20.34	20.29	20.14	2

G.2. NTN Conducted Powers

NB NTN Band 23		Frequency [MHz]		2000	2010	2019.9	MPR [dB]
Antenna:	Main						
Bandwidth [kHz]:	200	Channel Number		25500	25600	25699	
Power Level	Modulation	Number of Tones	Start Tone Index	Conducted Powers [dBm]			
Max	BPSK	1	0	21.24	21.23	21.24	
		1	5	21.20	21.30	21.26	0
		1	11	21.11	21.24	21.21	0

NB NTN Band 255		Frequency [MHz]		1626.6	1643.5	1660.4	MPR [dB]
Antenna:	Main						
Bandwidth [kHz]:	200	Channel Number		261505	261674	261843	
Power Level	Modulation	Number of Tones	Start Tone Index	Conducted Powers [dBm]			
Max	BPSK	1	0	21.83	21.72	21.79	
		1	5	21.88	21.79	21.50	0
		1	11	21.79	21.81	21.67	0